

# EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S69	28	((planar or flat) adj2 antenna) with (frequency with band)) and ((radio or cell or cellular or mobile or portable) adj2 (phone or apparatus or telephone or terminal or station)) and (antenna with (receiver or amplifier))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 09:19
S70	28	((planar or flat) adj2 antenna) with (frequency with band)) and ((radio or cell or cellular or mobile or portable) adj2 (phone or apparatus or telephone or terminal or station)) and (antenna with (receiver or amplifier))	US-PGPUB; USPAT	OR	ON	2006/12/06 09:14
S71	30	((planar or flat) adj2 antenna) with (frequency with band)) and ((radio or cell or cellular or mobile or portable) adj2 (phone or apparatus or telephone or terminal or station)) and (antenna with (receiver or amplifier))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/06 09:14
S72	30	((planar or flat) adj2 antenna) with (frequency with band)) and ((radio or cell or cellular or mobile or portable) adj2 (phone or apparatus or telephone or terminal or station)) and (antenna with (receiver or amplifier))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 14:46
S73	24	S72 and \$electric	US-PGPUB; USPAT	OR	ON	2006/12/06 14:48
S74	4	S73 and amplifier	US-PGPUB; USPAT	OR	ON	2006/12/06 14:48
S75	19402	piezoelectric and dielectric	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 14:49
S76	8265	piezoelectric same dielectric	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 14:51
S77	5878	piezoelectric with dielectric	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 14:49
S78	68	S77 same antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 14:50

## EAST Search History

S79	0	S77 same (planar with antenna)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 14:49
S80	4	S77 and (planar with antenna)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 14:49
S81	48	S77 with antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 14:50
S82	8	piezoelectric with (planar with antenna)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 14:59
S83	2	("6140966").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/12/06 14:55
S84	1	("6140966").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/06 14:55
S85	1	S84 and "170"	US-PGPUB; USPAT	OR	ON	2006/12/06 14:56
S86	1	S84 and "110"	US-PGPUB; USPAT	OR	ON	2006/12/06 14:56
S87	0	S84 and (speaker or amplif\$8)	US-PGPUB; USPAT	OR	ON	2006/12/06 14:58
S88	1	S84 and (vibrat\$4 or radiat\$4)	US-PGPUB; USPAT	OR	ON	2006/12/06 14:58
S89	11	piezoelectric same (planar with antenna)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 15:00
S90	803	piezoelectric with antenna	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 15:00
S91	116	S90 and planar	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 15:01
S92	15	S90 and (planar adj2 antenna)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/06 15:01
S93	1	("5124733").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/07 11:53

## EAST Search History

S94	0	S93 and piezoelectric	US-PGPUB; USPAT	OR	ON	2006/12/07 11:56
S95	1	("6927732").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/07 11:56
S96	419872	"1" and amplifier	US-PGPUB; USPAT	OR	ON	2006/12/07 11:56
S97	0	S95 and amplifier	US-PGPUB; USPAT	OR	ON	2006/12/07 12:06
S98	6	(piezoelectric or piezoceramic or piezo-electric or piezo-ceramic) with planar with antenna	US-PGPUB; USPAT	OR	ON	2006/12/07 13:06
S99	8	(piezoelectric or piezoceramic or piezo-electric or piezo-ceramic) same (planar with antenna)	US-PGPUB; USPAT	OR	ON	2006/12/07 13:07
S10 0	2	S99 not S98	US-PGPUB; USPAT	OR	ON	2006/12/07 12:08
S10 1	24267	(piezoelectric or piezoceramic or piezo-electric or piezo-ceramic) with (multiple or several or other or first or second)	US-PGPUB; USPAT	OR	ON	2006/12/07 12:48
S10 2	1996	S101 and antenna	US-PGPUB; USPAT	OR	ON	2006/12/07 12:49
S10 3	67	S101 and ((microstrip or planar) with antenna)	US-PGPUB; USPAT	OR	ON	2006/12/07 16:24
S10 4	4	S101 same ((microstrip or planar) with antenna)	US-PGPUB; USPAT	OR	ON	2006/12/07 12:54
S10 5	161	S101 same antenna	US-PGPUB; USPAT	OR	ON	2006/12/07 12:55
S10 6	77	S101 with antenna	US-PGPUB; USPAT	OR	ON	2006/12/07 15:03
S10 7	9	("20020093394"   "5294898"   "5697087"   "5839062"   "5874866"   "5942958"   "6242843"   "6262637").PN. OR ("6741146").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/07 13:04
S10 8	6	S107 and antenna	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/07 13:05
S10 9	5	S108 and (piezoelectric or piezo-electric or piezoceramic or piezo-ceramic or (piezo adj2 electric) or (piezo adj2 electric))	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/07 13:07
S11 0	6	(piezoelectric or piezo-electric or piezoceramic or piezo-ceramic or (piezo adj2 electric) or (piezo adj2 electric))with planar with antenna	US-PGPUB; USPAT	OR	ON	2006/12/07 13:07

## EAST Search History

S11 1	8	(piezoelectric or piezo-electric or piezoceramic or piezo-ceramic or (piezo adj2 electric) or (piezo adj2 electric)) same (planar with antenna)	US-PGPUB; USPAT	OR	ON	2006/12/07 13:07
S11 2	75	S106 and (antenna with piezoelectric)	US-PGPUB; USPAT	OR	ON	2006/12/07 15:04
S11 3	4	S112 and (flat with antenna)	US-PGPUB; USPAT	OR	ON	2006/12/07 15:13
S11 4	125	(PZT or PVDF) and ((microstrip or planar or flat) with antenna)	US-PGPUB; USPAT	OR	ON	2006/12/07 16:25
S11 5	7	(PZT or PVDF) same ((microstrip or planar or flat) with antenna)	US-PGPUB; USPAT	OR	ON	2006/12/07 16:24
S11 6	72	(PZT or PVDF) and ((microstrip or planar or flat) with antenna) and ((radio or cell or cellular or wireless or portable) adj2 (phone or telephone or station or terminal or device or apparatus))	US-PGPUB; USPAT	OR	ON	2006/12/07 16:26
S11 7	3	(PZT or PVDF) and (((microstrip or planar or flat) with antenna) same ((radio or cell or cellular or wireless or portable) adj2 (phone or telephone or station or terminal or device or apparatus)))	US-PGPUB; USPAT	OR	ON	2006/12/07 18:40
S11 8	1	("6140966").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/07 18:40
S11 9	1	S118 and ground	US-PGPUB; USPAT	OR	ON	2006/12/07 18:40